

Access DB# 78676

# SEARCH REQUEST FORM

Scientific and Technical Information Center

77

Requester's Full Name: Pinchus Laufer Examiner #: 73139 Date: 10/24/02  
Art Unit: 2100 Phone Number 305-4160 Serial Number: 09/996086  
Mail Box Location: 206 Results Format Preferred (circle): PAPER DISK E-MAIL

**If more than one search is submitted, please prioritize searches in order of need.**

\*\*\*\*\*  
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

*\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

5954839

\*\*\*\*\*

**STAFF USE ONLY****Type of Search****Vendors and cost where applicable**

Searcher: <u>Shirelle Green</u>	Sequence (#) _____	STN _____
Searcher Phone #: <u>306-4767</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: <u>4B40</u>	Structure (#) _____	Questel/Orbit <u>21.81</u>
Date Searcher Picked Up: <u>10/24/02</u>	Bibliographic _____	Dr.Link _____
Date Completed: <u>10/24/02</u>	Litigation <input checked="" type="checkbox"/>	Lexis/Nexis <input checked="" type="checkbox"/>
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet <input checked="" type="checkbox"/>
Online Time: <u>2</u>	Other _____	Other (specify) _____

1 of 1 DOCUMENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5954839

September 21, 1999

Error protection method for multimedia data

REISSUE: September 21, 2001 - Reissue Application filed Sep. 21, 2001 (O.G. Jan. 15, 2002) Ex. Gp.: 2786; Re. S.N. 09/996,086 January 15, 2002

INVENTOR: Park, Dong-seek, Daegu, KRX; Villasenor, John, Santa Monica, CA; Chen, Feng, Irvine, CA; Luttrell, Max, Santa Monica, CA; Dowling, Brendan, Malibu, CA

APPL-NO: 08782174 (08)

FILED-DATE: January 14, 1997

GRANTED-DATE: September 21, 1999

ASSIGNEE-AFTER-ISSUE: May 27, 1997 - ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)., SAMSUNG ELECTRONICS CO., LTD. 416, MAETAN-DONG, PALDAL-GU, SUWON-CITY KYUNGKI-DO, REPUBLIC OF KOREA, REGENTS OF THE UNIVERSITY OF CALIFORNIA, THE 300 LAKESIDE DRIVE, 22ND FL. OAKLAND, CALIFORNIA 94612-355,, Reel and Frame Number: 008551/0267

November 5, 1998 - ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)., REGENTS OF THE UNIVERSITY OF CALIFORNIA, THE 1111 FRANKLIN STREET, 12TH FLOOR OAKLAND, CALIFORNIA 94607-520,, Reel and Frame Number: 009563/0885

LEGAL-REP: Sughrue, Mion, Zinn, Macpeak & Seas, PLLC

US-MAIN-CL: 714#699

US-ADDL-CL: 375#364, 375#368, 714#746, 714#748, 714#751, 714#775, 414#7445

SEARCH-FLD: 371#72 , 371#30 , 371#32 , 371#35 , 371#42 , 371#3702 , 371#3705 , 357#206 , 65#325 , 364#514 , 375#364 , 375#368 , 369#59

IPC-MAIN-CL: G 06F011#0

PRIM-EXMR: Elmore, Reba I.

ASST-EXMR: Marc, McDieunel

**LEXIS-NEXIS**  
**Library: PATENT**  
**File: ALL**

ENGLISH-ABST:

An error protection method for multimedia improves data recovery and channel throughput in channels which cause a random error and a burst error by using a rate compatible punctured convolutional code (RCPC) and an automatic retransmission on request (ARQ). In a process of decoding a plurality of packets of given information, the error protection method includes the steps of a) decoding one of the plurality of packets, b) decoding another packet when an error occurs during the decoding in step a), c) decoding a combination of the packets from steps a) and b) or a third packet when an error occurs in step b), and d) repeating step c) until the decoding error no longer occurs. The error protection method has the characteristics of both Type-1 and Type-2 ARQ methods. Therefore, one can obtain constant channel throughput in a channel containing burst errors, a channel containing random errors, and a channel in which the two types of error patterns coexist simultaneously.

**No Documents Found**

No documents were found for your search (**5954839** or **5,954,839**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

**Edit Search**

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**LEXIS-NEXIS**  
**Library: PATENT**  
**File: JNLS**

**No Documents Found**

No documents were found for your search (**5954839** or **5,954,839**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

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**LEXIS-NEXIS**  
**Library: PATENT**  
**File: CASES**

?us5954839/pn

\*\* SS 1: Results 1

Search statement 2

?prt full nonstop legalall

1/1 PLUSPAT - (C) QUESTEL-ORBIT- image

PN - US5954839 A 19990921 [US5954839]

TI - (A) Error protection method for multimedia data

PA - (A) SAMSUNG ELECTRONICS CO LTD (KR); UNIV CALIFORNIA (US)

IN - (A) PARK DONG-SEEK (KR); VILLASENOR JOHN (US); CHEN FENG (US);  
LUTTRELL MAX (US); DOWLING BRENDAN (US)

AP - US78217497 19970114 [1997US-0782174]

PR - US78217497 19970114 [1997US-0782174]

IC - (A) G06F-011/00

EC - H03M-013/00

- H04L-001/00B2

- H04L-001/18D2

PCL - ORIGINAL (O) : 714699000; CROSS-REFERENCE (X) : 375364000 375368000  
714746000 714748000 714751000 714775000

DT - Corresponding document

CT - US4914699; US5157687; US5671156; US5689439; EP0479296 A1

- Gold et al., "Error Correction strategies for data Broadcasting",  
IEEE, pp. 323-327, 1988.

Pingzhi et al., "Linear Unequal Error-Protection Array Codes", IEEE,  
pp. 333-334, Jan. 1988.

Shiozaki, "Unequal Error Protection of PCM Signals by Self-Orthogonal  
Convolutional Codes", IEEE, pp. 289-290, 1989.

Baker et al., "Mode S System Design and Architecture", IEEE, pp.  
1689-1694, 1989.

Stephen B. Wicker, "Adaptive Rate Error Control Through the Use of  
Diversity Combining and Majority Logic Decoding in a Hybrid-ARQ  
Protocol", IEEE, pp. 29.6.1.-29.6.6., 1989.

STG - (A) United States patent

AB - An error protection method for multimedia improves data recovery and  
channel throughput in channels which cause a random error and a burst  
error by using a rate compatible punctured convolutional code (RCPC)  
and an automatic retransmission on request (ARQ). In a process of  
decoding a plurality of packets of given information, the error  
protection method includes the steps of a) decoding one of the  
plurality of packets, b) decoding another packet when an error occurs  
during the decoding in step a), c) decoding a combination of the  
packets from steps a) and b) or a third packet when an error occurs in  
step b), and d) repeating step c) until the decoding error no longer  
occurs. The error protection method has the characteristics of both  
Type-1 and Type-2 ARQ methods. Therefore, one can obtain constant  
channel throughput in a channel containing burst errors, a channel  
containing random errors, and a channel in which the two types of  
error patterns coexist simultaneously.

1/1 LGST - (C) LEGSTAT

PN - US 5954839 [US5954839]

AP - US 782174/97 19970114 [1997US-0782174]

DT - US-P

ACT - 19970114 US/AE-A

APPLICATION DATA (PATENT)

ON-CITY  
970523;

REET,  
19980606

UP

1/15 Ltd KR  
PN  
PA  
ACT

1/1 PA  
AN -  
PN -  
OG -  
ACT -

?fam us5954839/pn

1 Patent Groups  
\*\* SS 1: Results 20

Search statement 2

?famstate nonstop

1/20 INPADOC - (C) INPADOC

PN - AU 731511 B2 20010329 [AU-731511]  
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA  
IN - PARK DONG SEEK; VILLASENOR JOHN; CHEN FENG; DOWLING DRENDAN; LUTTERELL  
MAX  
PA - SAMSUNG ELECTRONICS CO LTD; UNIV CALIFORNIA  
AP - AU 56809/98-A 19980112 [1998AU-0056809]  
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]  
- US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/00

2/20 INPADOC - (C) INPADOC

PN - AU 56809/98 A1 19980803 [AU9856809]  
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA  
IN - PARK DONG SEEK; VILLASENOR JOHN; CHEN FENG; DOWLING DRENDAN; LUTTERELL  
MAX  
PA - SAMSUNG ELECTRONICS CO LTD  
AP - AU 56809/98-A 19980112 [1998AU-0056809]  
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]  
- US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/00

3/20 INPADOC - (C) INPADOC

PN - BR 9806956 A 20000321 [BR9806956]  
TI - ERRO PARA MULTIMIDIA  
IN - PARK DONG SEEK; VILLASENOR JOHN; CHEN FENG; DOWLING BRENDAN; LUTTRELL  
MAX  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]  
AP - BR 9806956/98-A 19980112 [1998BR-0006956]  
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]  
- US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/00

4/20 INPADOC - (C) INPADOC

PN - DE 19881949 T 20000413 [DE19881949]  
TI - VERFAHREN ZUR FEHLERVERHINDERUNG FUEER MULTIMEDIA  
IN - PARK DONG SEEK [KR]; VILLASENOR JOHN [US]; CHEN FENG [US]; DOWLING  
BRENDAN [US]; LUTTRELL MAX [US]  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]  
AP - DE 19881949/98-A 19980112 [1998DE-1081949]  
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]  
- US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/00

1/3 LEGALI - (C) LEGSTAT

PN - DE 19861185 [DE19861185]  
DT - DE-P  
ACTE- 20010906 DE/R171-P  
DIVIDED OUT TO:  
(DE 19881949 20010906 [DE19881949])



- 20010906 DE/8172-P  
SUPPLEMENTARY DIVISION/PARTITION IN:  
(DE 19881949 20010906 [DE19881949])
- 20011206 DE/8142  
DECLARATION FOR PARTITION TO BE CONSIDERED AS NOT GIVEN AS TO  
PARAGRAPH 39 OR 60
- 20020124 DE/8170 [+]  
REINSTATEMENT OF THE FORMER POSITION
- 20020221 DE/8110 [+]  
REQUEST FOR EXAMINATION PARAGRAPH 44
- 20020919 DE/8607  
NOTIFICATION OF SEARCH RESULTS AFTER PUBLICATION

UP - 2002-38

2/3 LEGALI - (C) LEGSTAT

PN - DE 19881949 [DE19881949]  
DT - DE-P  
ACTE- 20000413 DE/OP8 [+]  
REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW

- 20000413 DE/RET-P [+]  
PCT-APPLICATION TRANSLATED (PART 6B PATENT GAZETTE)  
<WO 9831106 20000413>
- 20010104 DE/8607  
NOTIFICATION OF SEARCH RESULTS AFTER PUBLICATION
- 20010906 DE/R172-P  
DIVIDED OUT OF (SUPPLEMENT) :  
(DE 19861185 20010906 [DE19861185])
- 20010906 DE/8171-P  
DIVISION OF:  
(DE 19861185 20010906 [DE19861185])

UP - 2001-36

3/3 LEGALI - (C) LEGSTAT

PN - WO 9831106 [WO9831106]  
AP - WO 9800004/98(KR) 19980112 [1998WO-KR000004]  
DT - WO-P  
ACTE- 19980112 WO/AE-A  
APPLICATION DATA  
{WO 9800004/98(KR) 19980112 [1998WO-KR000004]}

- 19980716 WO/AK-A1 [+]  
DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT  
AU BR CA CN DE ES GB JP RU SG
- 19980716 WO/AL-A1 [+]  
DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED  
APPLICATION WITH SEARCH REPORT  
AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
- 19980716 WO/A1 [+]  
PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL  
SEARCH REPORT
- 19981001 WO/DFPE  
REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH  
MONTH FROM PRIORITY DATE
- 19981216 WO/121  
EP: ALL PREREQUISITES FOR ENTERING THE EUROP. PHASE FULFILED
- 19990712 WO/ENP-A  
ENTRY INTO THE NATIONAL PHASE IN:  
<GB 9916132>
- 19990713 WO/ENP-AA  
ENTRY INTO THE NATIONAL PHASE IN:  
<CA 2278515>
- 19990714 WO/ENP-A  
ENTRY INTO THE NATIONAL PHASE IN:  
<JP 98530766>

- 20000413 WO/RET-P [+]  
DE TRANSLATION (DE OG PART 6B)  
(DE 19881949 20000413 [DE19881949])  
UP - 2000-34

5/20 INPADOC - (C) INPADOC  
PN - EP 953230 A1 19991103 [EP-953230]  
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA  
LA - ENG  
IN - PARK DONG SEEK [KR]; VILLASENOR JOHN [US]; CHEN FENG [US]; DOWLING  
BRENDAN [US]; LUTTRELL MAX [US]  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]  
AP - EP 98901114/98-A 19980112 [1998EP-0901114]  
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]  
- US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/00  
DS - FR\* IT\* NL\*

1/1 LEGALI - (C) LEGSTAT  
PN - EP 953230 [EP-953230]  
AP - EP 98901114/98 19980112 [1998EP-0901114]  
DT - EP-P  
ACTE- 19980112 EP/AE-A  
EP-APPLICATION  
{EP 98901114/98 19980112 [1998EP-0901114]}  
- 19991103 EP/AK-A1 [+]  
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:  
FR IT NL  
- 19991103 EP/A1 [+]  
PUBLICATION OF APPLICATION WITH SEARCH REPORT  
- 19991103 EP/17P [+]  
REQUEST FOR EXAMINATION FILED  
19990811  
- 20000126 EP/RAP1  
APPLICANT REASSIGNMENT (CORRECTION)  
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA \* REGENTS OF THE  
UNIVERSITY OF CALIFORNIA  
UP - 2000-04

6/20 INPADOC - (C) INPADOC  
PN - ES 2156577 AA 20010616 [ES2156577]  
TI - PROCEDIMIENTO DE PREVENCION DE ERRORES PARA MULTIMEDIA  
IN - DONG SEEK PARK [KR]; VILLASENOR JOHN [US]; FENG CHEN [US]; DOWLING  
BRENDAN [US]; LUTTRELL MAX [US]  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA  
AP - ES 9950035/99-A 19980112 [1999ES-0050035]  
PR - US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/00

1/2 LEGALI - (C) LEGSTAT  
PN - ES 2156577 [ES2156577]  
AP - ES 9950035/99 19980112 [1999ES-0050035]  
DT - ES-P  
ACTE- 19980112 ES/AE-A  
APPLIED (PATENT APPLICATION)  
{ES 9950035/99 19980112 [1999ES-0050035]}  
UP - 2001-29

2/2 LEGALI - (C) LEGSTAT

PN - ES 9950035 [ES9950035]  
DT - ES-AN  
ACTE- 20010616 ES/AGA-AA [+]  
PUBLISHED AS PATENT APPLICATION WITH SEARCH REPORT  
(ES 2156577 20010616 [ES2156577])  
- 20010616 ES/EC2A [+]  
SEARCH REPORT PUBLISHED  
20010616A1  
- 20020301 ES/AGA-BA [+]  
PUBLISHED AS PATENT GRANTED WITH SEARCH REPORT  
(ES 2156577 20020301 [ES2156577])  
UP - 2002-13

7/20 INPADOC - (C) INPADOC

PN - ES 2156577 BA 20020301 [ES2156577]  
TI - PROCEDIMIENTO DE PREVENCIÓN DE ERRORES PARA MULTIMEDIA  
IN - DONG SEEK PARK [KR]; VILLASENOR JOHN [US]; FENG CHEN [US]; DOWLING  
BRENDAN [US]; LUTTRELL MAX [US]  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA  
AP - ES 9950035/99-A 19980112 [1999ES-0050035]  
PR - US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/00

1/2 LEGALI - (C) LEGSTAT

PN - ES 2156577 [ES2156577]  
AP - ES 9950035/99 19980112 [1999ES-0050035]  
DT - ES-P  
ACTE- 19980112 ES/AE-A  
APPLIED (PATENT APPLICATION)  
{ES 9950035/99 19980112 [1999ES-0050035]}  
UP - 2001-29

2/2 LEGALI - (C) LEGSTAT

PN - ES 9950035 [ES9950035]  
DT - ES-AN  
ACTE- 20010616 ES/AGA-AA [+]  
PUBLISHED AS PATENT APPLICATION WITH SEARCH REPORT  
(ES 2156577 20010616 [ES2156577])  
- 20010616 ES/EC2A [+]  
SEARCH REPORT PUBLISHED  
20010616A1  
- 20020301 ES/AGA-BA [+]  
PUBLISHED AS PATENT GRANTED WITH SEARCH REPORT  
(ES 2156577 20020301 [ES2156577])  
UP - 2002-13

8/20 INPADOC - (C) INPADOC

PN - GB 2347056 A1 20000823 [GB2347056]  
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA  
IN - PARK DONG-SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING  
BRENDAN [US]; LUTTRELL MAX [US]  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]  
AP - GB 9916132/99-A 19980112 [1999GB-0016132]  
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]  
- US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/23; H04L-001/18

1/1 LEGALI - (C) LEGSTAT

PN - GB 2347056 [GB2347056]

AP - GB 9916132/99 19980112 [1999GB-0016132]  
DT - GB-P  
ACTE- 19980112 GB/AE-A  
APPLICATION DATA  
{GB 9916132/99 19980112 [1999GB-0016132]]  
- 20000823 GB/A1  
APPLICATION PUBLISHED  
- 20020508 GB/B2 [+]  
PATENT GRANTED  
UP - 2002-19

9/20 INPADOC - (C) INPADOC

PN - GB 200202515 A0 20020320 [GB200202515]  
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA  
PA - SAMSUNG ELECTRONICS CO LTD; UNIV CALIFORNIA  
AP - GB 200202515/02-A 19980112 [2002GB-0202515]  
PR - GB 9916132/99-A3 19980112 [1999GB-0016132]  
- US 782174/97-A 19970114 [1997US-0782174]

10/20 INPADOC - (C) INPADOC

PN - GB 200202514 A0 20020320 [GB200202514]  
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA  
PA - SAMSUNG ELECTRONICS CO LTD; UNIV CALIFORNIA  
AP - GB 200202514/02-A 19980112 [2002GB-0202514]  
PR - GB 9916132/99-A3 19980112 [1999GB-0016132]  
- US 782174/97-A 19970114 [1997US-0782174]

11/20 INPADOC - (C) INPADOC

PN - GB 2368760 A1 20020508 [GB2368760]  
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA DATA PACKETS  
IN - PARK DONG SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING  
BRENDAN [US]; LUTTRELL MAX [US]  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]  
AP - GB 200202515/02-A 19980112 [2002GB-0202515]  
PR - GB 9916132/99-A3 19980112 [1999GB-0016132]  
- US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/23; H04L-001/18

1/1 LEGALI - (C) LEGSTAT

PN - GB 2368760 [GB2368760]  
AP - GB 200202515/02 19980112 [2002GB-0002515]  
DT - GB-P  
ACTE- 19980112 GB/AE-A  
APPLICATION DATA  
{GB 200202515/02 19980112 [2002GB-0002515]]  
- 20020508 GB/A1  
APPLICATION PUBLISHED  
- 20020619 GB/B2 [+]  
PATENT GRANTED  
UP - 2002-25

12/20 INPADOC - (C) INPADOC

PN - GB 2368759 A1 20020508 [GB2368759]  
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA DATA PACKETS  
IN - PARK DONG SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING  
BRENDAN [US]; LUTTRELL MAX [US]  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]  
AP - GB 200202514/02-A 19980112 [2002GB-0202514]

PR - GB 9916132/99-A3 19980112 [1999GB-0016132]  
- US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/23; H04L-001/18

1/1 LEGALI - (C) LEGSTAT

PN - GB 2368759 [GB2368759]  
AP - GB 200202514/02 19980112 [2002GB-0002514]  
DT - GB-P  
ACTE- 19980112 GB/AE-A  
APPLICATION DATA  
{GB 200202514/02 19980112 [2002GB-0002514]}  
- 20020508 GB/A1  
APPLICATION PUBLISHED  
- 20020619 GB/B2 [+]  
PATENT GRANTED  
UP - 2002-25

13/20 INPADOC - (C) INPADOC

PN - GB 2347056 B2 20020508 [GB2347056]  
TI - METHOD FOR PROTECTING AGAINST ERRORS  
IN - PARK DONG-SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING  
BRENDAN [US]; LUTTRELL MAX [US]  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]  
AP - GB 9916132/99-A 19980112 [1999GB-0016132]  
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR000004]  
- US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/23; H04L-001/18

1/2 LEGALI - (C) LEGSTAT

PN - GB 2347056 [GB2347056]  
AP - GB 9916132/99 19980112 [1999GB-0016132]  
DT - GB-P  
ACTE- 19980112 GB/AE-A  
APPLICATION DATA  
{GB 9916132/99 19980112 [1999GB-0016132]}  
- 20000823 GB/A1  
APPLICATION PUBLISHED  
- 20020508 GB/B2 [+]  
PATENT GRANTED  
UP - 2002-19

2/2 LEGALI - (C) LEGSTAT

PN - GB 9916132 [GB9916132]  
AP - GB 9916132 - [99GB-0016132]  
DT - GB-A  
ACTE- 19990712 GB/REFW-P  
CORRESPONDS TO PCT APPLICATION  
<WO 9831106> [WO9831106]  
UP - 2000-34

14/20 INPADOC - (C) INPADOC

PN - GB 2368760 B2 20020619 [GB2368760]  
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA  
IN - PARK DONG SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING  
BRENDAN [US]; LUTTRELL MAX [US]  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]  
AP - GB 200202515/02-A 19980112 [2002GB-0202515]  
PR - GB 9916132/99-A3 19980112 [1999GB-0016132]  
- US 782174/97-A 19970114 [1997US-0782174]

IC - H03M-013/23; H04L-001/18

1/1 LEGALI - (C) LEGSTAT

PN - GB 2368760 [GB2368760]

AP - GB 200202515/02 19980112 [2002GB-0002515]

DT - GB-P

ACTE- 19980112 GB/AE-A

APPLICATION DATA

{GB 200202515/02 19980112 [2002GB-0002515]}

- 20020508 GB/A1

APPLICATION PUBLISHED

- 20020619 GB/B2 [+]

PATENT GRANTED

UP - 2002-25

15/20 INPADOC - (C) INPADOC

PN - GB 2368759 B2 20020619 [GB2368759]

TI - ERROR PREVENTION METHOD FOR MULTIMEDIA

IN - PARK DONG SEEK [KR]; VILLASENOR JOHN D [US]; CHEN FENG [US]; DOWLING  
BRENDAN [US]; LUTTRELL MAX [US]

PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]

AP - GB 200202514/02-A 19980112 [2002GB-0202514]

PR - GB 9916132/99-A3 19980112 [1999GB-0016132]

- US 782174/97-A 19970114 [1997US-0782174]

IC - H03M-013/23; H04L-001/18

1/1 LEGALI - (C) LEGSTAT

PN - GB 2368759 [GB2368759]

AP - GB 200202514/02 19980112 [2002GB-0002514]

DT - GB-P

ACTE- 19980112 GB/AE-A

APPLICATION DATA

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- 20020619 GB/B2 [+]

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16/20 INPADOC - (C) INPADOC

PN - GB 9916132 A0 19990908 [GB9916132]

TI - ERROR PREVENTION METHOD FOR MULTIMEDIA

PA - SAMSUNG ELECTRONICS CO LTD; UNIV CALIFORNIA

AP - GB 9916132/99-A 19980112 [1999GB-0016132]

PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]

- US 782174/97-A 19970114 [1997US-0782174]

1/1 LEGALI - (C) LEGSTAT

PN - GB 9916132 [GB9916132]

AP - GB 9916132 - [99GB-0016132]

DT - GB-A

ACTE- 19990712 GB/REFW-P

CORRESPONDS TO PCT APPLICATION

<WO 9831106> [WO9831106]

UP - 2000-34

17/20 INPADOC - (C) INPADOC

PN - JP 2000508151 T2 20000627 [JP2000508151]  
AP - JP 530766/98-A 19980112 [1998JP-0530766]  
PR - WO 9800004/98(KR)-W 19980112 [1998WO-KR00004]  
- US 782174/97-A 19970114 [1997US-0782174]  
IC - H04L-001/18; H03M-013/01; H04L-012/56

18/20 INPADOC - (C) INPADOC

PN - KR 230331 B1 19991115 [KR-230331]  
TI - THE ERROR PROTECTING METHOD FOR MULTI-MEDIA  
IN - PARK DONG SIK [KR]; BILASONER JOHN [US]; CHEN PENG [US]; RUTHERAL MAX  
[US]; DOLING BREADAN [US]  
PA - SAMSUNG ELECTRONICS CO LTD [KR]  
AP - KR 9742940/97-A 19970829 [1997KR-0042940]  
PR - US 782174/97-A 19970114 [1997US-0782174]  
IC - H04L-012/56

19/20 INPADOC - (C) INPADOC

PN - US 5954839 A 19990921 [US5954839]  
TI - ERROR PROTECTION METHOD FOR MULTIMEDIA DATA  
IN - PARK DONG-SEEK [KR]; VILLASENOR JOHN [US]; CHEN FENG [US]; LUTTRELL  
MAX [US]; DOWLING BRENDAN [US]  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]  
AP - US 782174/97-A 19970114 [1997US-0782174]  
PR - US 782174/97-A 19970114 [1997US-0782174]  
IC - G06F-011/00

1/1 LEGALI - (C) LEGSTAT

PN - US 5954839 [US5954839]  
AP - US 782174/97 19970114 [1997US-0782174]  
DT - US-P  
ACTE- 19970114 US/AE-A  
APPLICATION DATA (PATENT)  
{US 782174/97 19970114 [1997US-0782174]}  
- 19970527 US/AS02  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
SAMSUNG ELECTRONICS CO., LTD. 416, MAETAN-DONG, PALDAL-GU, SUWON-CITY  
KYUNGKI-DO \* PARK, DONG-SEEK : 19970507; VILLASENOR, JOHN : 19970523;  
CHEN, FENG : 19970523  
- 19981105 US/AS02  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
REGENTS OF THE UNIVERSITY OF CALIFORNIA, THE 1111 FRANKLIN STREET,  
12TH FLOOR OA \* LUTTRELL, MAX : 19980521; DOWLING, BRENDAN : 19980606  
- 19990921 US/A  
PATENT  
- 20020115 US/RF  
REISSUE APPLICATION FILED  
20010921  
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20/20 INPADOC - (C) INPADOC

PN - WO 9831106 A1 19980716 [WO9831106]  
TI - ERROR PREVENTION METHOD FOR MULTIMEDIA  
LA - ENG  
IN - PARK DONG SEEK; VILLASENOR JOHN; CHEN FENG; DOWLING DRENDAN; LUTTERELL  
MAX  
PA - SAMSUNG ELECTRONICS CO LTD [KR]; UNIV CALIFORNIA [US]  
AP - WO KR 9800004/98(KR)-A 19980112 [1998WO-KR00004]  
PR - US 782174/97-A 19970114 [1997US-0782174]  
IC - H03M-013/00

DS - AU\* BR\* CA\* CN\* DE\* ES\* GB\* JP\* RU\* SG\* AT BE CH DE DK ES FI FR GB GR  
IE IT LU MC NL PT SE

1/4 LEGALI - (C) LEGSTAT

PN - GB 9916132 [GB9916132]

AP - GB 9916132 - [99GB-0016132]

DT - GB-A

ACTE- 19990712 GB/REFW-P

CORRESPONDS TO PCT APPLICATION

<WO 9831106> [WO9831106]

UP - 2000-34

2/4 LEGALI - (C) LEGSTAT

PN - JP 530766/98

AP - JP 530766/98 - [1998JP-0530766]

DT - JP-A

ACTE- 19990714 JP/REFW-P

CORRESPONDS TO PCT APPLICATION

<WO 9831106> [WO9831106]

UP - 2000-13

3/4 LEGALI - (C) LEGSTAT

PN - CA 2278515 [CA2278515]

DT - CA-P

ACTE- 19990713 CA/REFW-P

CORRESPONDS TO PCT APPLICATION

<WO 9831106> [WO9831106]

UP - 1999-44

4/4 LEGALI - (C) LEGSTAT

PN - WO 9831106 [WO9831106]

AP - WO 9800004/98(KR) 19980112 [1998WO-KR00004]

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ACTE- 19980112 WO/AE-A

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- 19980716 WO/AK-A1 [+]

DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

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- 19980716 WO/AL-A1 [+]

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APPLICATION WITH SEARCH REPORT

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- 19980716 WO/A1 [+]

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- 19981001 WO/DFPE

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- 19981216 WO/121

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- 19990712 WO/ENP-A

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<GB 9916132>

- 19990713 WO/ENP-AA

ENTRY INTO THE NATIONAL PHASE IN:

<CA 2278515>

- 19990714 WO/ENP-A

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<JP 98530766>

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